

**AGENDA**  
**2019 Virginia Geological Research Symposium**  
**Division of Geology and Mineral Resources**  
**900 Natural Resources Drive, Charlottesville, VA 22903**  
**Thursday, April 18, 2019**

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|--------------------|---|
| 8:00 – 8:30 a.m.   | Registration and “Meet and Greet” with refreshments   |
| 8:30 – 8:40 a.m.   | State of the State Geological Survey – <i>David Spears, DGMR</i>  |
| 8:40 – 9:40 a.m.   | <b>Technical Session #1</b>   |
| 8:40 – 9:00        | Notes on the history of the Brooks and other geological collections in the archives of DMME – <i>Rudy Bland, Division of Geology and Mineral Resources</i>  |
| 9:00 – 9:20        | How paleoclimate sculpted the supply of fresh water on the present-day Virginia Eastern Shore – <i>Randy Mcfarland, U.S. Geological Survey</i>  |
| 9:20 – 9:40        | Fossil footprints in the Bacons Castle formation of Virginia – <i>Rob Weems, U.S. Geological Survey, retired</i>  |
| 9:40 – 10:00 a.m.  | Break   |
| 10:00 – 11:00 a.m. | <b>Technical Session #2</b>   |
| 10:00 – 10:20      | Identification of landslides using LiDAR data, western Virginia – <i>Philip Prince, Division of Geology and Mineral Resources</i>   |
| 10:20 – 10:40      | Looking back 50 years: the legacy of Hurricane Camille in Virginia – <i>Dick Whitehead, Wiley Wilson</i>  |
| 10:40 – 11:00      | Geological factors affecting slope stability in the Virginia Coastal Plain: Observations from the 2018 Nottoway Lane rotational landslide, King William County – <i>Anne Witt, Division of Geology and Mineral Resources</i>  |
| 11:00 a.m. – noon  | <b>Breakout Sessions</b>  |
|                    | <ul style="list-style-type: none"> <li>• Breakout #1 – Crowdsourcing a new open-access Historical Geology textbook – <i>Callan Bentley, Northern Virginia Community College, and Russ Kohrs, Lord Fairfax Community College</i></li> <li>• Breakout #2 – Tour of the Natural Resources Building and Rock Garden – <i>Matt Heller, Division of Geology and Mineral Resources</i></li> <li>• Breakout #3 – To be announced</li> </ul> |
| Noon – 1:00 p.m.   | Lunch on your own – See list of local restaurants   |

1:00 – 2:00 p.m.	<b>Poster Session</b> (see list of posters on p. 2)
2:00 – 3:00 p.m.	<b>Technical Session #3</b>
2:00 – 2:20	Paleoclimate controls on the Phanerozoic stratigraphy of Virginia – <i>Chris Swezey, U.S. Geological Survey</i>
2:20 – 2:40	U-PB zircon evidence for a cryptic suture in the Goochland terrane, Virginia – <i>Chuck Bailey, College of William and Mary</i>
2:40 – 3:00	New age controls on the emplacement of the Petersburg granite and on the rocks into which it intrudes, central-eastern Virginia piedmont, USA – <i>Mark Carter, U.S. Geological Survey</i>
3:00 – 3:30 p.m.	Break with refreshments
3:30 – 4:30 p.m.	<b>Technical Session #4</b>
3:30 – 3:50	Age and provenance of clasts in the Early Cretaceous Potomac Group at Puddledock, Virginia: Implications for passive margin development in eastern North America – <i>Mark Simonds, U.S. Army Corps of Engineers</i>
3:50 – 4:10	Stratigraphic mapping of Devonian clastics using LiDAR imagery – <i>Daniel Doctor, U.S. Geological Survey</i>
4:10 – 4:30	Mineral resources on Virginia's Outer Continental Shelf: new insights concerning sand for beach restoration and economic heavy minerals – <i>William Lassetter, Division of Geology and Mineral Resources</i>
4:30 p.m.	<b>Summary and wrap-up</b>

# POSTERS

<b>Title</b>	<b>Author</b>	<b>Affiliation</b>
Geology and Geomorphology of Owl Cave in the Silurian-Devonian Keyser Limestone, Highland County, Virginia	Emily Brent and Michael Knez with Swezey and Hanes	James Madison University/USGS
Virtual Reality tour of the Grand Canyon	Bill Schmachtenberg	Franklin Co HS/Ferrum College
Network Analysis of Virginia's Minerals	Cadence Hughes	
A detrital zircon study of the Scottsville Mesozoic Basin	Kinsey Wilk, Christopher M. Bailey, Zach Foster-Baril, and Daniel Stockli	College of William and Mary
3D Geometric model using structure from motion (SFM) and kinematic analysis of fold-thrust belt structures exposed in a quarry on the east bank of the South Fork of the Shenandoah River in Page Valley, VA	Dietrich, Lynn; Sen, Pragnyadipta; and Biggs, Thomas	University of Virginia
Geometric and kinematic analysis of the Feura Bush quarry duplex in the northern Hudson Valley gold-thrust belt, Selkirk, NY	Robbins, Kathryn; and Sen, Pragnyadipta	University of Virginia
Three-dimensional geometric modeling of thrust duplex in the Feura Bush quarry, Selkirk, NY, using structure from motion (SFM)	Sullivan, Veronica; Fildes, Rebecca; and Sen, Pragnyadipta	University of Virginia
Geology of the Konnarock Quadrangle	Arthur Merschat	U.S. Geological Survey